

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P#

Luminaire Tested: **HBLED-LD5-12SE-W-WG-UNV-L735-ED1-U**

Issue Date: 3/3/2020

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33336)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: HBLED-LD5-12SE-W-WG-UNV-L735-ED1-U
Description: METALUX HIGH BAY LINEAR LED
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

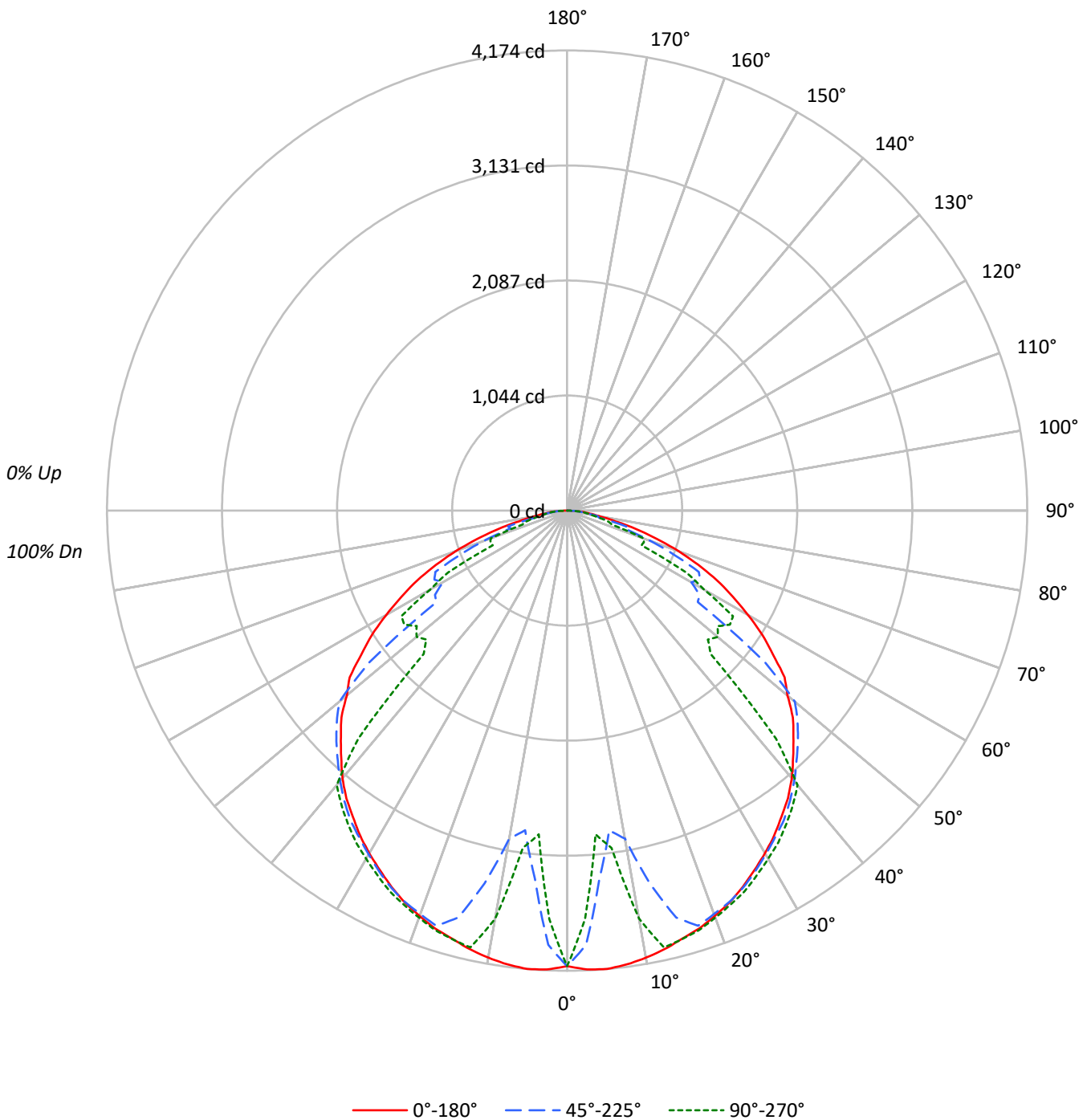
Lumens per Lamp: N/A
Luminaire Lumens: 10947.0 lumens
Efficiency: N/A
Efficacy: 142.9 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 1.31 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 76.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	103	99	96	98	95	93	95	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	87	82	77	83	79	75	80	77	74	72
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61
4	84	72	63	57	81	71	63	56	68	61	56	66	60	55	64	58	54	52
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45
6	71	58	49	43	69	57	49	42	55	48	42	53	47	42	52	46	41	39
7	66	52	44	38	64	52	43	38	50	43	37	49	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	30	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5560	5560	5560
5°	5637	4529	3983
10°	5627	4130	5137
15°	5602	5323	5607
20°	5603	5577	5627
25°	5592	5605	5656
30°	5576	5595	5667
35°	5567	5629	5695
40°	5568	5629	5710
45°	5524	5633	3500
50°	5462	5644	3731
55°	5347	3394	4228
60°	5100	3498	3872
65°	4779	4200	2369
70°	4220	3182	2904
75°	3362	2892	2014
80°	2316	2091	1730
85°	2220	1930	1831



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	330.4	3.0
10°-20°	1035.2	9.5
20°-30°	1703.1	15.6
30°-40°	2141.4	19.6
40°-50°	2100.2	19.2
50°-60°	1740.1	15.9
60°-70°	1227.3	11.2
70°-80°	535.5	4.9
80°-90°	133.8	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3068.7	28.0
0°-40°	5210.1	47.6
0°-60°	9050.4	82.7
0°-90°	10947.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10947.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4132	4132	4132	4132	4132	
5°	4174	3885	3353	3040	2949	396
15°	4022	2793	3821	4038	4025	1137
25°	3767	3447	3775	3801	3810	1736
35°	3390	3388	3427	3450	3467	2124
45°	2903	2912	2960	2622	1840	2241
55°	2279	2354	1447	1645	1802	2039
65°	1501	1590	1319	1015	744	1476
75°	647	634	556	364	387	694
85°	144	128	125	120	119	149
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4132.1	4132.1	4132.1	4132.1	4132.1
2.5°	4166.2	4079.8	3942.4	3769.5	3708.2
5°	4173.6	3884.6	3352.9	3040.2	2948.8
7.5°	4152.4	3530.3	2923.1	2988.8	3085.6
10°	4118.8	3219.0	3022.9	3556.5	3759.6
12.5°	4075.8	2942.4	3463.1	4017.5	4058.0
15°	4022.0	2793.1	3821.3	4037.8	4025.4
17.5°	3976.5	2880.6	3949.8	3997.2	3988.4
20°	3912.8	3055.0	3895.0	3933.0	3929.6
22.5°	3848.5	3261.5	3843.1	3870.3	3870.3
25°	3767.0	3446.8	3775.4	3800.6	3810.0
27.5°	3677.6	3553.5	3690.9	3711.7	3728.5
30°	3589.1	3568.9	3601.0	3627.7	3647.4
32.5°	3495.7	3487.8	3513.0	3541.2	3566.4
35°	3389.5	3387.5	3427.1	3449.8	3467.1
37.5°	3289.7	3282.8	3319.3	3351.0	3364.3
40°	3170.1	3170.1	3204.7	3236.8	3250.7
42.5°	3033.8	3053.0	3079.7	3112.8	2803.5
45°	2903.3	2912.2	2960.1	2621.7	1839.5
47.5°	2777.8	2789.2	2834.6	1685.4	1731.3
50°	2609.3	2660.7	2696.3	1680.4	1782.2
52.5°	2486.3	2508.5	2263.5	1663.6	1720.9
55°	2279.3	2353.9	1446.7	1644.9	1802.5
57.5°	2102.4	2156.7	1422.5	1685.4	1783.2
60°	1895.4	1978.4	1300.0	1626.1	1438.8
62.5°	1696.7	1775.8	1357.3	1279.7	1218.4
65°	1501.1	1589.5	1319.2	1014.9	744.1
67.5°	1286.6	1204.1	1052.4	715.0	752.5
70°	1072.7	841.0	808.8	799.4	738.2
72.5°	852.8	613.7	537.1	599.8	429.4
75°	646.8	633.9	556.4	363.7	387.4
77.5°	448.6	457.5	297.9	354.8	294.5
80°	298.9	258.9	269.8	226.3	223.3
82.5°	207.0	211.5	177.4	171.9	174.4
85°	143.8	128.0	125.0	119.6	118.6
87.5°	47.9	55.8	51.9	46.9	49.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)